

Approximate distance from p telomere (Mb)

D19S1184

D19S1186

7.60

7.75

BC672420

R31913

KIAA0521

MG-4

MG-12

MG-1

MG-2

NTE

BC903416

MUCL4 genomic structure

exons

mg2-GWF4

mg2-EF4

mg2-ER4

mg2-ER6

AJ deletion

13270 bps

Transcript map

Physical Map

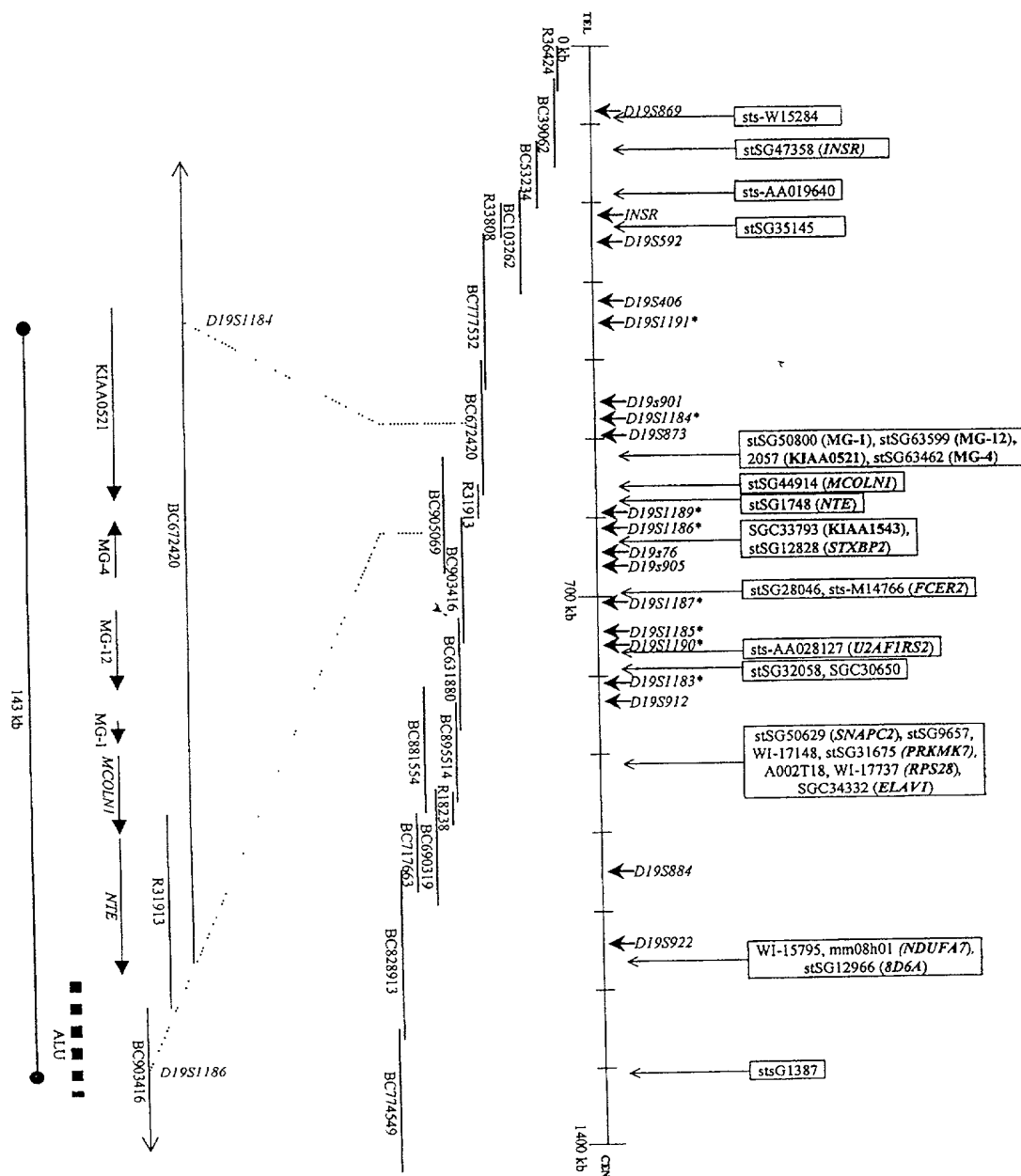


Fig. 1B

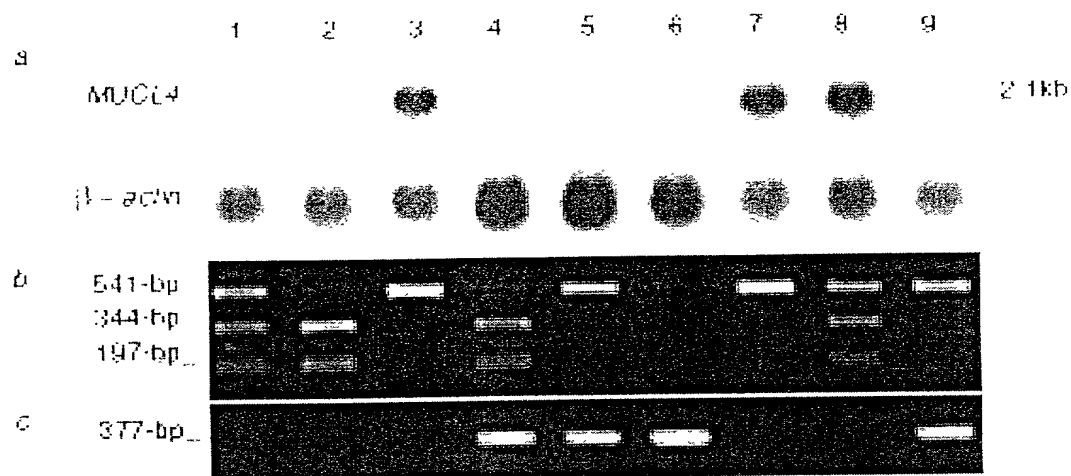


FIGURE 2

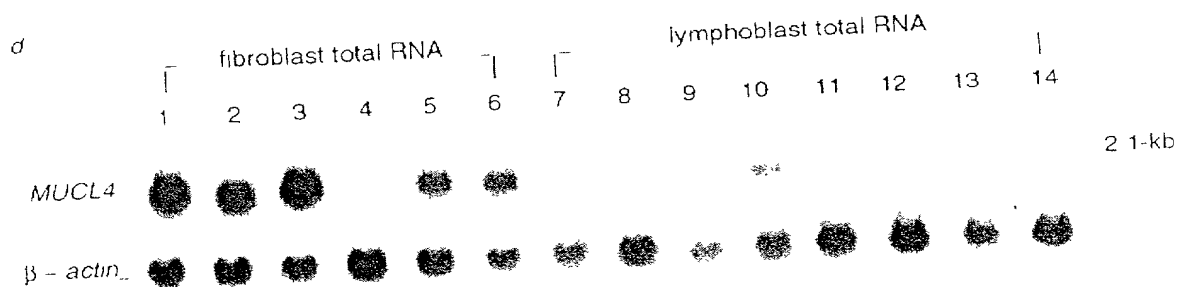


Figure 2

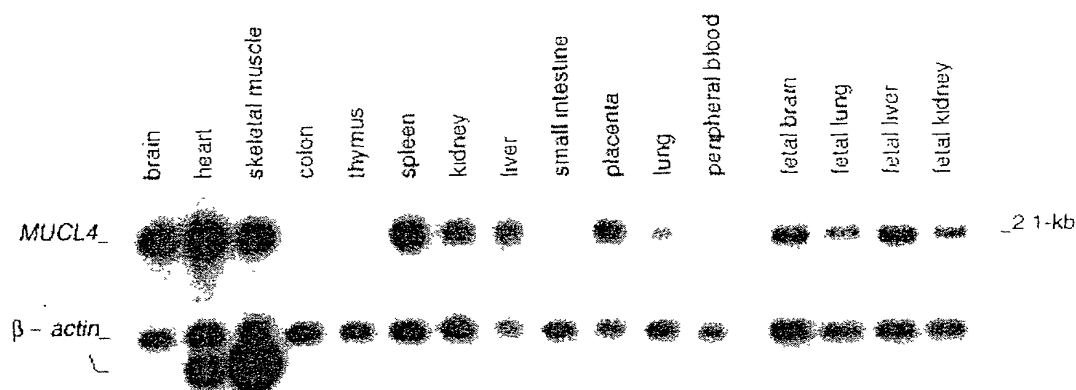


FIGURE 3

Mucolipin
BAA91951*
AAF49118_

1.....MTPACRCSEERILLTENPGCTOACBPSP..APPTPEEDARRRLAK
1.....MADEVVVCSSEENRNCNNOOTSPS.....EELLLEOQRRRLK
1MQSYCPGAQTAPAVKRTDSEYAAQQQQQSPESDEEYVNTILRQVLOSTFVAVVPIASAGSTAPPSVDREEQEPPGSSAASYQEEERMRKUQ

Mucolipin
BAA91951_

47EFMSPOCKBPRAKRPCKMOKVAILVTVQLFLGLSNQVATRENTIAERHALLIGSDG.....ADTFPAATTEQVQAFHAYDOLA
44EFFMNPCEKEFWGRKPKLIAQIKLIAVLOLVFLGLSNQVAKKEENTIAKHJELKGMOR.....MDDTAVVTOQSDVMDQITFAVNOILL
101EFFMNPCEKEFWGRKPKLIAQIKLIAVLOLVFLGLSNQVAKKEENTIAKHJELKGMOR.....MDDTAVVTOQSDVMDQITFAVNOILL

Mucolipin
BAA91951_

139PDVSCGVAVVRCGCDPWTNGSCALCORVTHRGHNDPNDYEDIDPMVVTQIQVDPERPPPPSDDLLMDESSSYKNLTKRHKLVNVTTHFRK
136LVNVSCHAYENKG...KQSAVACQHVYKGNIPNDYEDIDPMVVTQIQVDPERPPPPSDDLLMDESSSYKNLTKRHKLVNVTTHFRK
200VSRSICPDYPTPN....NTMPPKICLQNVYECTIGENSSIFDHIQVGERUPENVT.....TIGVNYLRODVEVNEASIVSAQITERRK

Mucolipin
BAA91951_

239TINLOSHIN.NEIPDCYTFSMLTFDKNKASHRIPISLTQCHIOECK...EPSYEQHCDNSRIRUFDVWILQCSLSEFCARSLRGLLONEBEVCEM
224AHNLOVRH.OEIPDCYDFMMLTFDKNKASHRIKISLDNDEISIRECOW.EVSGSIOKNIHMMIFDAFVILIGVLSILGICRSVIRGLQLOEERVNEF
287TVNFKANGPLSAPDQEREDHSITENNERDQMLISLDAAERLKHCHGATDFISDANFDSMDRSVIANEVLTGALSFCALCTRALMRMLLRCITVNEF

Mucolipin
BAA91951_

335WRQRCRVLSWRLRFVNGWYIIMVTSVLTISGILVXCIEAKNLAS...YDVCSILIGTSTLNVGVIRLTFHNNTLITLTVLPSVARECCCV
322LLHCKVSSPOEFVNGWYIMIIISDLTIGSILKXEQAKSLTS...YDVCSILIGTSTLNVGVIRLTFHNNTLITLTVLPSVARECCCV
387RSQCKELSDGRLEFVNGWYIMIIENDVLLTIGSALKXEQIESRYLVVDQDTCSEFLGICNLVAVGVIRLTFHNNTLITLTVLPSVARECCCV

Mucolipin
BAA91951_

433AVILGYCFGCVILGPVHKERSLSWSECLFSLINGDDMEVTFAMQOQSSIAVWLFQVLYSFISLFTYVWLSLFIALLTCAYDTIKHPGCA
420AVILGYCFGCVILGPVHKERSLSWSECLFSLINGDDMEVTFAMQOQSSIAVWLFQVLYSFISLFTYVWLSLFIALLTCAYDTIKHPGCA
487LTYACVECGMILGPVHKERSLANTSECLFALINGDDMEVTFAMQOQSSIAVWLFQVLYSFISLFTYVWLSLFIALLTCAYDTIKHPGCA

Mucolipin
BAA91951_

533ESELQAVLQOQ.DSPISCKERRGSG.....SACSLCCCCGDPSEHSLVN.....
517PETELTETISECK.DLPNSGKRLEDD.....PPVSLFCCCKK.....
584ETDLKARKGRTAEDISGVENTLIDFDQTSFLDVVKSLCCCCGRCGRHQPAPQNSGYTSLSSIMK

Figure 4A

PKD2 vs. Mucolipin Hydrophobicity Plot

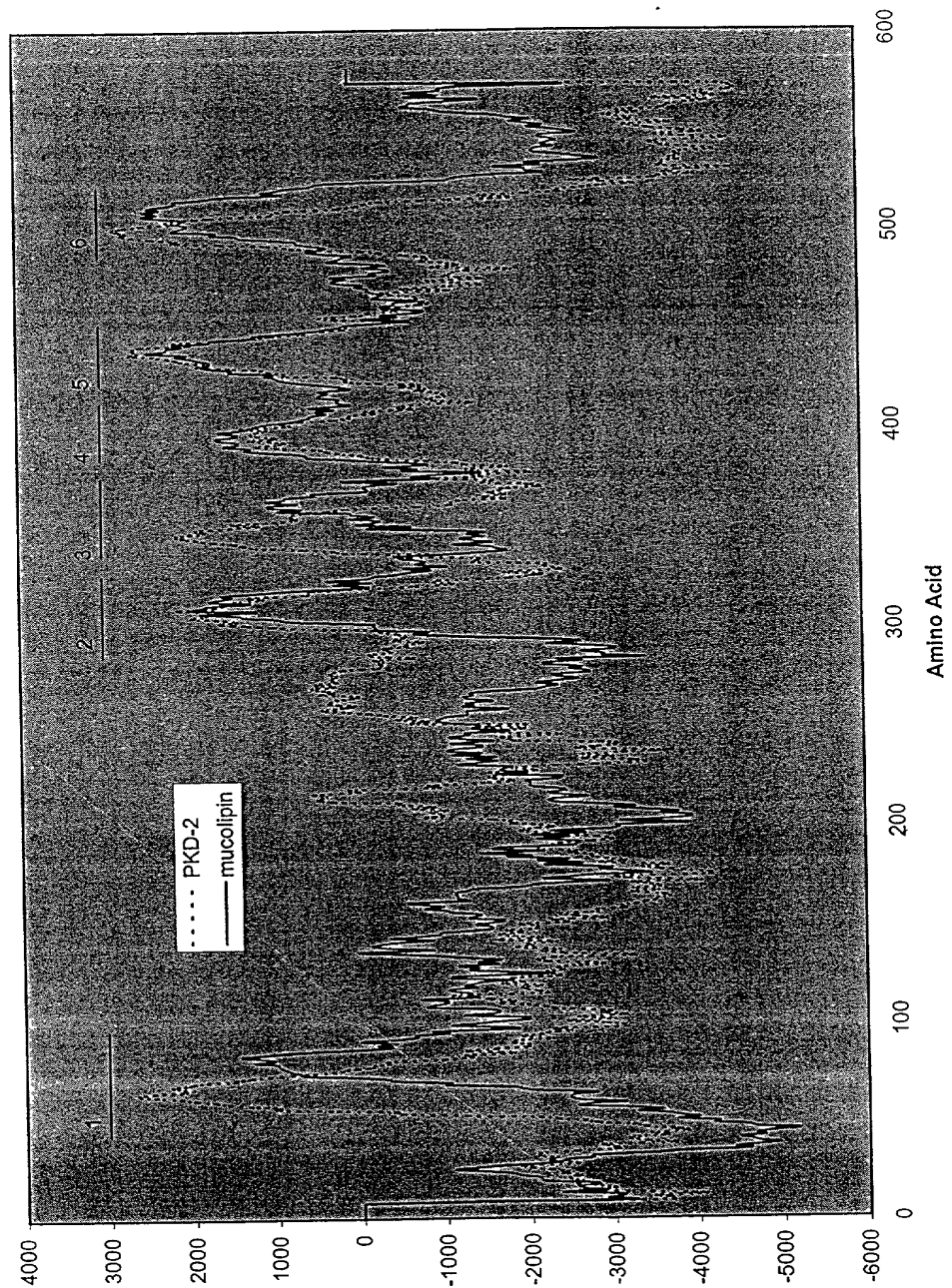


Figure 4B